

ends. The time taken for one computer's packet to travel the Ethernet's length and for the other computer's transmission to arrive equals the round-trip, not one-way, propagation time.

**Solution to Exercise 6.36.3**

The cable must be a factor of ten shorter: It cannot exceed 100 m. Different minimum packet sizes means different packet formats, making connecting old and new systems together more complex than need be.

**Solution to Exercise 6.37.1**

When you pick up the telephone, you initiate a dialog with your network interface by dialing the number. The network looks up where the destination corresponding to that number is located, and routes the call accordingly. The route remains fixed as long as the call persists. What you say amounts to high-level protocol while establishing the connection and maintaining it corresponds to low-level protocol.